

GUESS THE BIRTHDAY DATE

The table you can see beside is the base of the activity.

As you can check, the chart has the numbers 1 to 31 many times and they are in different places according to a trick.

This is the way to develop the game:

First, you ask someone to think a number from 1 to 31 and write secretly the number, so that you don't see it.

Then, you ask if the number is on the first column. You can guide the reading pointing all the number from the top to the bottom.

After, you will do the same with the next column and so on until you finish all of them.

At this moment, you are able to figure out the hidden number. How?

If the answer to the first question is positive, that is, the number is on the first column, you have to memorize 16 points, in the opposite way you do not add up anything.

If the answer to the second question is affirmative that means the number is on the second column and you have to add 8 points to the before account. In the opposite case you have to add nothing.

The punctuation for the third column is 4 points in a similar way; it is 2 points for the fourth column and 1 point for the fifth and last column.

That is all; the hidden number is the sum you get through the previous process.

You can colour each column in a different way to improve the presentation and to identify better each of them.

25	31	21	26	13
29	15	5	10	7
22	9	12	6	3
19	11	15	14	15
16	14	7	3	1
31	10	14	15	5
26	13	6	11	9
17	12	13	7	11
20	8	30	27	31
27	24	31	22	29
30	28	23	30	27
21	25	4	31	25
18	30	20	18	23
23	26	29	19	21
28	27	22	2	19
24	29	28	23	17

SOLVE THE FOLLOWING QUESTIONS

Imagine the hidden number is on the 4th, 2nd and 1st column, write the operation to get the number and find the number

Add the punctuation of the three columns and the result is the hidden number.

$$16 + 8 + 2 = 26$$

The hidden number is 26. ✓

The hidden number is on the 3rd and 2nd column, what is the hidden number? Write the operations you have to do in order to figure out the number.

Add the punctuation of the two columns and the result is the hidden number.

$$8 + 4 = 12$$

The hidden number is 12. ✓

What is the number which is on all the columns?

The number is 31, because: $16 + 8 + 4 + 2 + 1 = 31$. ✓

What are the numbers which are on only one column?

First column: 16.

Second column: 8.

Third column: 4.

Fourth column: 2

Fifth column: 1